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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,308	12/12/2005	Sven Hansen	117163.00129	6441
	7590 11/19/200 ER & PARKS, LLP	EXAMINER		
One GOJO Plan	•	MANUEL, GEORGE C		
Suite 300 AKRON, OH 4	4311-1076		ART UNIT	PAPER NUMBER
·	,		3762	
			NOTIFICATION DATE	DELIVERY MODE
			11/19/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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•	Application No.	Applicant(s)	
•	10/540,308	HANSEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	George Manuel	3762	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).	
Status		•	
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or			
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the consequence of the conseque	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date 6/20/05.

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____

Application/Control Number: 10/540,308

Art Unit: 3762

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the language "a stimulation rate which is higher than an in particular intrinsic rate" is indefinite.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in Exparte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 2 recites the broad recitation 70 and 90, and the claim also recites 80 which is the narrower statement of the range/limitation.

Application/Control Number: 10/540,308

Art Unit: 3762

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-5, 10-15 and 17-20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Florio et al (US 6,519,493).

Florio et al disclose a stimulation rate that is higher than an intrinsic rate comprises an overdrive pacing margin that is selectively increased or decreased to maintain a degree of pacing at 95% paced beats. If the intrinsic rate is 60 bpm, the cardiac stimulation device 10 overdrive paces the heart at a rate of 65 ppm. If the intrinsic rate increases to 80 bpm, then the overdrive pacing rate automatically increases to 85 ppm. The examiner is interpreting a time window to comprise the "count" shown, for example in Fig. 3.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which

said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-9 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Florio et al (US 6,519,493).

Florio et al show all of the claimed features except for a predetermined degree being between 10 and 20% of transconductions or between 10 and 20% of transconducted stimuli in relation to a total number of ventricular events.

Florio et al teach attaining at least a minimum of 90% paced beats. If fewer than 90% of the beats are paced beats (i.e., at least two beats out of every ten beats are intrinsic beats) the overdrive pacing rate is increased; otherwise it is decreased. This provides a feedback loop that maintains the pacing rate at a rate sufficient to provide about 90% paced beats on the average. The examiner is interpreting transconductions to comprise the sinus node pulses conducted to the various atria and ventricles of the heart via certain, normal conduction pathways.

One of ordinary skill in the art would have found it obvious to range the transconductions to between 10 and 20% because two beats out of 10 represents 20% and one beat out of 10 represents 10%.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (571) 272-4952.